

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/518,763  
Source: IFU 16  
Date Processed by STIC: 05/30/2007

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 05/30/2007

PATENT APPLICATION: US/09/518,763

TIME: 13:20:45

Input Set : A:\BTI44.APP

Output Set: N:\CRF4\05302007\I518763.raw

```

3 <110> APPLICANT: Blissard, Gary W.
4     Granados, Robert R.
5     Lin, Guangyun
7 <120> TITLE OF INVENTION: STABLE CELL LINES RESISTANT TO APOPTOSIS AND NUTRIENT
8     STRESS AND METHODS OF MAKING SAME
10 <130> FILE REFERENCE: BTI44
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/518,763
C--> 13 <141> CURRENT FILING DATE: 2000-03-03
15 <160> NUMBER OF SEQ ID NOS: 7
17 <170> SOFTWARE: PatentIn Ver. 2.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 900
21 <212> TYPE: DNA
22 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
24 <220> FEATURE:
25 <221> NAME/KEY: CDS
26 <222> LOCATION: (1)..(897)
28 <300> PUBLICATION INFORMATION:
29 <301> AUTHORS: Ayres, Martin D.
30     Howard, Stephen C.
31     Kuzio, John
32     Lopez-Ferber, Miguel
33     Possee, Robert D.
34 <302> TITLE: The Complete DNA Sequence of Autographa californica
35     Nuclear Polyhedrosis Virus
36 <303> JOURNAL: Virology
37 <304> VOLUME: 202
38 <305> ISSUE: 2
39 <306> PAGES: 586-605
40 <307> DATE: 1994
41 <308> DATABASE ACCESSION NO: L22858
42 <309> DATABASE ENTRY DATE: 1999-03-08
43 <313> RELEVANT RESIDUES: 116492 TO 117391
45 <400> SEQUENCE: 1
46 atg tgt gta att ttt ccg gta gaa atc gac gtg tcc cag acg att att      48
47 Met Cys Val Ile Phe Pro Val Glu Ile Asp Val Ser Gln Thr Ile Ile
48   1             5             10             15
50 cga gat tgt cag gtg gac aaa caa acc aga gag ttg gtg tac att aac      96
51 Arg Asp Cys Gln Val Asp Lys Gln Thr Arg Glu Leu Val Tyr Ile Asn
52   20             25             30
54 aag att atg aac acg caa ttg aca aaa ccc gtt ctc atg atg ttt aac      144
55 Lys Ile Met Asn Thr Gln Leu Thr Lys Pro Val Leu Met Met Phe Asn
56   35             40             45

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58 att tcg ggt cct ata cga agc gtt acg cgc aag aac aac aat ttg cgc 192
59 Ile Ser Gly Pro Ile Arg Ser Val Thr Arg Lys Asn Asn Asn Leu Arg
60      50      55      60
62 gac aga ata aaa tca aaa gtc gat gaa caa ttt gat caa cta gaa cgc 240
63 Asp Arg Ile Lys Ser Lys Val Asp Glu Gln Phe Asp Gln Leu Glu Arg
64 65      70      75      80
66 gat tac agc gat caa atg gat gga ttc cac gat agc atc aag tat ttt 288
67 Asp Tyr Ser Asp Gln Met Asp Gly Phe His Asp Ser Ile Lys Tyr Phe
68      85      90      95
70 aaa gat gaa cac tat tcg gta agt tgc caa aat ggc agc gtg ttg aaa 336
71 Lys Asp Glu His Tyr Ser Val Ser Cys Gln Asn Gly Ser Val Leu Lys
72      100      105      110
74 agc aag ttt gct aaa att tta aag agt cat gat tat acc gat aaa aag 384
75 Ser Lys Phe Ala Lys Ile Leu Lys Ser His Asp Tyr Thr Asp Lys Lys
76      115      120      125
78 tct att gaa gct tac gag aaa tac tgt ttg ccc aaa ttg gtc gac gaa 432
79 Ser Ile Glu Ala Tyr Glu Lys Tyr Cys Leu Pro Lys Leu Val Asp Glu
80      130      135      140
82 cgc aac gac tac tac gtg gcg gta tgc gtg ttg aag ccg gga ttt gag 480
83 Arg Asn Asp Tyr Tyr Val Ala Val Cys Val Leu Lys Pro Gly Phe Glu
84 145      150      155      160
86 aac ggc agc aac caa gtg cta tct ttc gag tac aac ccg att ggt aac 528
87 Asn Gly Ser Asn Gln Val Leu Ser Phe Glu Tyr Asn Pro Ile Gly Asn
88      165      170      175
90 aaa gtt att gtg ccg ttt gct cac gaa att aac gac acg gga ctt tac 576
91 Lys Val Ile Val Pro Phe Ala His Glu Ile Asn Asp Thr Gly Leu Tyr
92      180      185      190
94 gag tac gac gtc gta gct tac gtg gac agt gtg cag ttt gat ggc gaa 624
95 Glu Tyr Asp Val Val Ala Tyr Val Asp Ser Val Gln Phe Asp Gly Glu
96      195      200      205
98 caa ttt gaa gag ttt gtg cag agt tta ata ttg ccg tcg tcg ttc aaa 672
99 Gln Phe Glu Glu Phe Val Gln Ser Leu Ile Leu Pro Ser Ser Phe Lys
100      210      215      220
102 aat tcg gaa aag gtt tta tat tac aac gaa gcg tcg aaa aac aaa agc 720
103 Asn Ser Glu Lys Val Leu Tyr Tyr Asn Glu Ala Ser Lys Asn Lys Ser
104 225      230      235      240
106 atg atc tac aag gct tta gag ttt act aca gaa tcg agc tgg ggc aaa 768
107 Met Ile Tyr Lys Ala Leu Glu Phe Thr Thr Glu Ser Ser Trp Gly Lys
108      245      250      255
110 tcc gaa aag tat aat tgg aaa att ttt tgt aac ggt ttt att tat gat 816
111 Ser Glu Lys Tyr Asn Trp Lys Ile Phe Cys Asn Gly Phe Ile Tyr Asp
112      260      265      270
114 aaa aaa tca aaa gtg ttg tat gtt aaa ttg cac aat gta act agt gca 864
115 Lys Lys Ser Lys Val Leu Tyr Val Lys Leu His Asn Val Thr Ser Ala
116      275      280      285
118 ctc aac aaa aat gta ata tta aac aca att aaa taa 900
119 Leu Asn Lys Asn Val Ile Leu Asn Thr Ile Lys
120      290      295
123 <210> SEQ ID NO: 2

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124 <211> LENGTH: 299
125 <212> TYPE: PRT
126 <213> ORGANISM: Autographa californica nucleopolyhedrovirus
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130   1           5           10           15
132 Arg Asp Cys Gln Val Asp Lys Gln Thr Arg Glu Leu Val Tyr Ile Asn
133           20           25           30
135 Lys Ile Met Asn Thr Gln Leu Thr Lys Pro Val Leu Met Met Phe Asn
136           35           40           45
138 Ile Ser Gly Pro Ile Arg Ser Val Thr Arg Lys Asn Asn Asn Leu Arg
139           50           55           60
141 Asp Arg Ile Lys Ser Lys Val Asp Glu Gln Phe Asp Gln Leu Glu Arg
142   65           70           75           80
144 Asp Tyr Ser Asp Gln Met Asp Gly Phe His Asp Ser Ile Lys Tyr Phe
145           85           90           95
147 Lys Asp Glu His Tyr Ser Val Ser Cys Gln Asn Gly Ser Val Leu Lys
148           100          105          110
150 Ser Lys Phe Ala Lys Ile Leu Lys Ser His Asp Tyr Thr Asp Lys Lys
151           115          120          125
153 Ser Ile Glu Ala Tyr Glu Lys Tyr Cys Leu Pro Lys Leu Val Asp Glu
154           130          135          140
156 Arg Asn Asp Tyr Tyr Val Ala Val Cys Val Leu Lys Pro Gly Phe Glu
157 145           150           155           160
159 Asn Gly Ser Asn Gln Val Leu Ser Phe Glu Tyr Asn Pro Ile Gly Asn
160           165           170           175
162 Lys Val Ile Val Pro Phe Ala His Glu Ile Asn Asp Thr Gly Leu Tyr
163           180          185          190
165 Glu Tyr Asp Val Val Ala Tyr Val Asp Ser Val Gln Phe Asp Gly Glu
166           195          200          205
168 Gln Phe Glu Glu Phe Val Gln Ser Leu Ile Leu Pro Ser Ser Phe Lys
169           210          215          220
171 Asn Ser Glu Lys Val Leu Tyr Tyr Asn Glu Ala Ser Lys Asn Lys Ser
172 225           230           235           240
174 Met Ile Tyr Lys Ala Leu Glu Phe Thr Thr Glu Ser Ser Trp Gly Lys
175           245           250           255
177 Ser Glu Lys Tyr Asn Trp Lys Ile Phe Cys Asn Gly Phe Ile Tyr Asp
178           260          265          270
180 Lys Lys Ser Lys Val Leu Tyr Val Lys Leu His Asn Val Thr Ser Ala
181           275          280          285
183 Leu Asn Lys Asn Val Ile Leu Asn Thr Ile Lys
184           290          295
187 <210> SEQ ID NO: 3
188 <211> LENGTH: 38
189 <212> TYPE: DNA
190 <213> ORGANISM: Artificial Sequence
192 <220> FEATURE:
193 <223> OTHER INFORMATION: Description of Artificial Sequence:
194     oligonucleotide primer

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196 <400> SEQUENCE: 3
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200 <210> SEQ ID NO: 4
201 <211> LENGTH: 38
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
205 <220> FEATURE:
206 <223> OTHER INFORMATION: Description of Artificial Sequence:
207     oligonucleotide primer
209 <400> SEQUENCE: 4
210 ctagctatta cgaccagccg ctggcatctt tccaactt          38
213 <210> SEQ ID NO: 5
214 <211> LENGTH: 30
215 <212> TYPE: DNA
216 <213> ORGANISM: Artificial Sequence
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Description of Artificial Sequence: p35upEcoRI
220     primer
222 <400> SEQUENCE: 5
223 cagaattcat gtgtgtaatt tttccggtag          30
226 <210> SEQ ID NO: 6
227 <211> LENGTH: 33
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
231 <220> FEATURE:
232 <223> OTHER INFORMATION: Description of Artificial Sequence: p35lowXbaI-NO
233     stop primer
235 <400> SEQUENCE: 6
236 ttttgctcta gatttaattg tgtttaatat tac          33
239 <210> SEQ ID NO: 7
240 <211> LENGTH: 35
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: Description of Artificial Sequence:
246     p35lowXbaI-Stop primer
248 <400> SEQUENCE: 7
249 aatgctctag attatttaatt tgtgtttaat attac          35

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/518,763

DATE: 05/30/2007  
TIME: 13:20:46

Input Set : A:\BTI44.APP  
Output Set: N:\CRF4\05302007\I518763.raw

**Invalid Line Length:**

The rules require that a line not exceed 72 characters in length. This includes spaces.

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**VERIFICATION SUMMARY**

DATE: 05/30/2007

PATENT APPLICATION: US/09/518,763

TIME: 13:20:46

Input Set : A:\BTI44.APP

Output Set: N:\CRF4\05302007\I518763.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date